

CLAIMS

1. An equatorial sundial containing two single and independent time and date scales, comprised of:
 - A primary polar gnomon with superimposed date scale for projecting a shadow on the time scale.
 - An equatorial ring or disc: the approximate top half serving as a secondary gnomon for projecting a shadow on the primary gnomon date scale.
 - A time scale represented on the approximate bottom half of the equatorial ring or disc.
2. The embodiment of claim 1 where an equatorial ring is used and a single time scale is represented on the approximate bottom half of the equatorial ring.
3. The embodiment of claim 1 where an equatorial disc is used and a time scale in the same plane as the disc is represented on both sides of the disc.
4. The embodiment of claim 2 where the primary gnomon has a date scale of the spring equinox months on one side and the fall equinox months on the other.
5. The embodiment of claim 4 where a pivotal axle mounted perpendicular to the equatorial plane between the equatorial ring and a mounting bracket allows adjustment to compensate for the longitudinal location and daylight savings time.
6. The embodiment of claim 5 where the mounting bracket includes an adjustable latitude angular adjustment.
7. The embodiment of claim 3 where the primary gnomon has a date scale of the spring equinox months on one side and the fall equinox months on the other.
8. The embodiment of claim 7 where a pivotal axle mounted perpendicular to the equatorial plane between the equatorial ring and a mounting bracket allows adjustment to compensate for the longitudinal location and daylight savings time.
9. The embodiment of claim 8 where the mounting bracket includes an adjustable latitude angular adjustment.
10. The embodiment of claim 8 where the primary gnomon is adjusted for length on the southern end (within the northern hemisphere) to set the latitude angle when serving as a part of the support structure.